#### **DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION**

**MIAMI-DADE COUNTY** PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

### **NOTICE OF ACCEPTANCE (NOA)**

Aluminum World, Inc. 4401 East 10th Avenue Hialeah, Florida 33013

#### Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION:** 22 ga. (0.029" min.) Galvanized Steel Storm Panels Shutter

APPROVAL DOCUMENT: Drawing No. 10-ALW-0001, titled "22 ga. (0.029") Galvanized Steel Storm Panels", sheets 1 through 4 of 4, prepared by Engineering Express, dated January 31, 2005, last revised on April 20, 2012, signed & sealed by Frank L. Bennardo, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

#### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each panel shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 10-0928.07 and consists of this page 1, evidence submitted pages E-1 and E-2 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S. Helig A. Melin 09/27/2012

MIAMI-DADE COUNTY APPROVED

NOA No. 12-0523.03 Expiration Date: 09/08/2015 **Approval Date: 09/27/2012** 

Page 1

#### Aluminum World, Inc.

#### **NOTICE OF ACCEPTANCE:** EVIDENCE SUBMITTED

#### 1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #05-0215.03

#### A. DRAWINGS

1. Drawing No. 04-166-0001, titled "22 ga. (0.029") Galvanized Steel Storm Panels", sheets 1 through 4 of 4, prepared by Frank L. Bennardo, P.E., Inc., dated August 08, 2005, signed and sealed by Frank L. Bennardo, P.E.

#### B. TESTS

1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on "22 ga. Galvanized Steel storm panels", prepared by Construction Testing Corporation, Report No. 04-014, dated October 22, 2004, signed and sealed by Yamil G. Kuri, P.E.

#### C. CALCULATIONS

1. Storm panel calculations, titled "22 ga. (0.029" thick) Galvanized Steel Storm Panels", sheets 1 through 35 of 35, prepared by Frank L. Bennardo, P.E., Inc., dated January 17, 2005, signed and sealed by Frank L. Bennardo, P.E. on February 11, 2005.

#### D. OUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

#### E. MATERIAL CERTIFICATIONS

- 1. Tensile Test Report from Certified Testing Laboratories, Project # CTL#0621K dated 08/30/04 for 22 ga. Galvanized Steel sample, tested per ASTM E8-93, signed and sealed by Ramesh Patel, P.E.
- 2. Mill Certified Inspection Report, dated 01/28/2004, for Galvanized Steel by Century Metals & Supplies, Inc. with chemical composition and physical properties.

#### 2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 10-0928.07

#### A. DRAWINGS

1. Drawing No. 10-ALW-0001, titled "22 ga. (0.029") Galvanized Steel Storm Panels", sheets 1 through 4 of 4, prepared by Engineering Express, dated September 21, 2010, signed and sealed by Frank L. Bennardo, P.E.

#### B. TESTS

1. None.

#### C. CALCULATIONS

1. Anchor Analysis, dated September 22, 2010, 23 pages, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E., on September 22, 2010.

Gelmy A. Makar, P.E., M.S.
Product Control Unit Supervisor

Product Control Unit Supervisor NOA No. 12-0523.03

Expiration Date: 09/08/2015 Approval Date: 09/27/2012

#### Aluminum World, Inc.

### NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### D. QUALITY ASSOURANCE

1. By Miami-Dade County Building and Neighborhood Compliance Department (BNC).

#### E. MATERIAL CERTIFICATIONS

1. None.

#### 3. NEW EVIDENCE SUBMITTED

#### A. DRAWINGS

1. Drawing No. 10-ALW-0001, titled "22 ga. (0.029") Galvanized Steel Storm Panels", sheets 1 through 4 of 4, prepared by Engineering Express, dated January 31, 2005, last revised on April 20, 2012, signed & sealed by Frank L. Bennardo, P.E.

#### B. TESTS

1. None.

#### C. CALCULATIONS

1. Anchor Analysis, dated May 17, 2012, 10 pages, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.

#### D. QUALITY ASSOURANCE

1. By Miami-Dade County Department of Regulatory and Economic Resources.

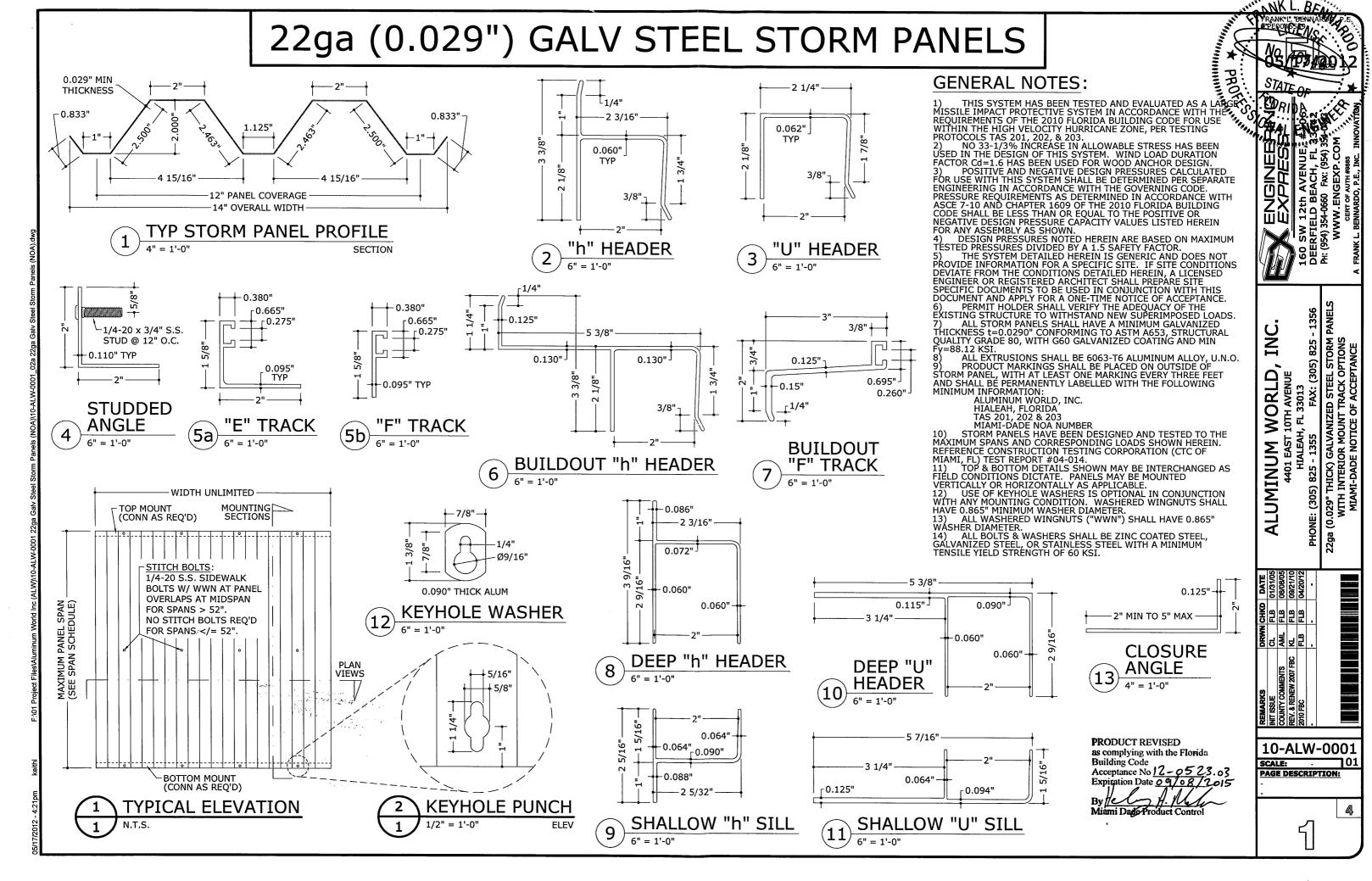
#### E. MATERIAL CERTIFICATIONS

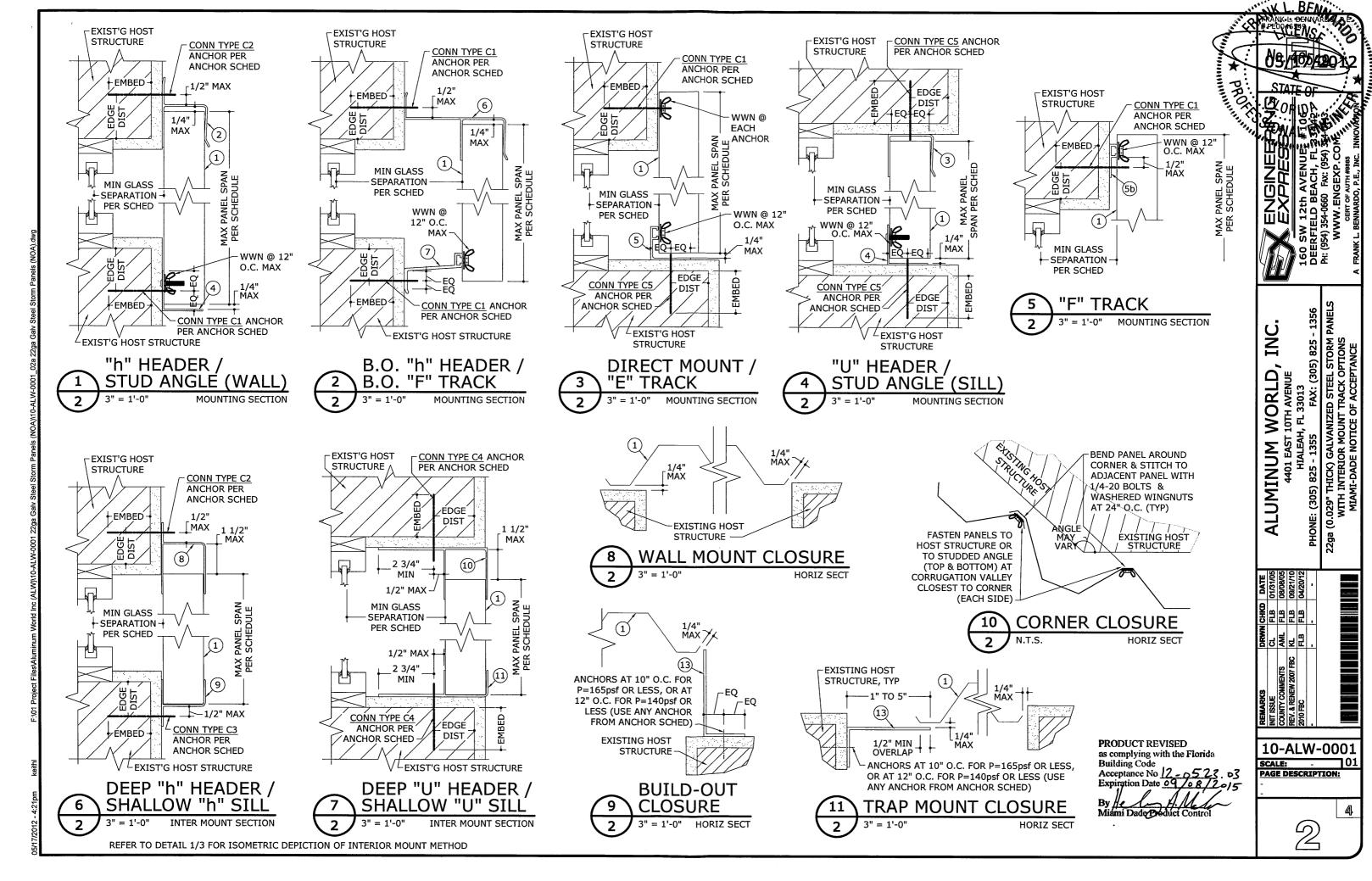
1. None.

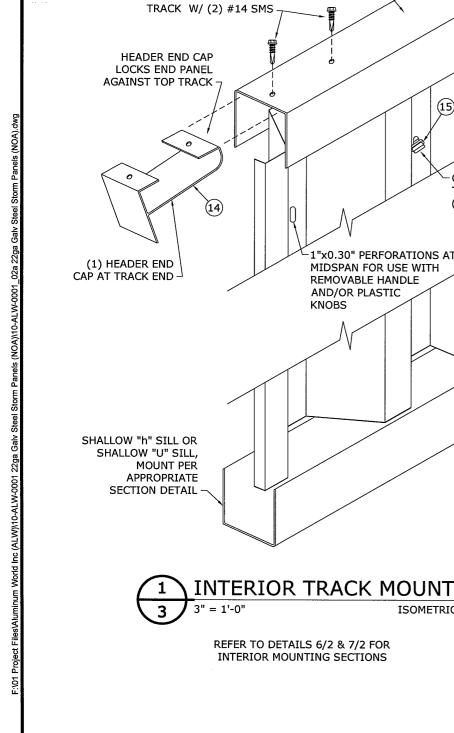
Helmy A. Makar, P.E., M.S.

Product Control Unit Supervisor NOA No. 12-0523.03

Expiration Date: 09/08/2015 Approval Date: 09/27/2012







ANGLE TO TRACK W/ (2) #14 SMS

1"x0.30" PERFORATIONS AT

**ISOMETRIC** 

MIDSPAN FOR USE WITH

REMOVABLE HANDLE

AND/OR PLASTIC

KNOBS

<sup>∠</sup>(1) 1"x2"

OPTIONAL PLASTIC KNOB TO EASE PANEL SLIDING (NON-STRUCTURAL)

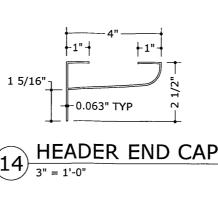
x0.092" ANGLE

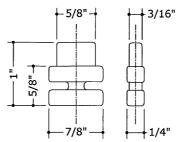
(1 3/4" LONG)

DEEP "h" HEADER OR DEEP "U" HEADER,

MOUNT PER APPROPRIATE SECTION DETAIL

HEADER END CAP TO







# MIN GLASS SEPARATION SCHEDULE:

DOCTTI /F			****
POSITIVE DESIGN		MIN SEPARATION	MIN SEPARATION
		FOR INSTALLATIONS	FOR INSTALLATIONS
LOAD (PSF)	SPAN	0-30' ABOVE GRADE	>30' ABOVE GRADE
	6'-0"	2.88"	1.13"
30	8'-8"	2.88"	1.57"
	11'-0"	3.00"	2.48"
	6'-0"	2.88"	1.17"
40	8'-8"	2.88"	1.00"
	11'-0"	3.00"	2.97"
	6'-0"	2.88"	1.22"
50	8'-8"	2.88"	1.95"
	10'-2"	3.00"	2.80"
	6'-0"	2.88"	1.26"
60	8'-8"	2.88"	2.14"
	9'-2"	3.00"	2.43"
70	6'-0"	2.88"	1.31"
70	7'-11"	2.88"	1.92"
90	6'-0"	2.88"	1.35"
80	6'-11"	2.88"	1.62"

# MIN SEPARATION FROM GLASS SCHEDULE NOTES:

- 1) MINIMUM DISTANCE BETWEEN GLAZING AND STORM PANELS NOTED ABOVE
- APPLIES TO ALL MOUNTING CONDITIONS, EXCEPT AS NOTED BELOW.

  2) INTERIOR MOUNT CONDITIONS DEPICTED IN DETAILS 6/2 & 7/2 (i.e. USING PART Nos. 8, 9, 10, OR 11 TOGETHER OR WITH ANY OTHER MOUNTING CONDITION) SHALL BE MOUNTED WITH 3" MINIMUM SEPARATION FROM GLAZING.
- 3) FOR DESIGN LOADS & SPANS BETWEEN TABULATED VALUES USE NEXT HIGHER VALUE, OR LINEAR INTERPOLATION MAY BE PERFORMED BY A LICENSED PROFESSIONAL ENGINEER TO DETERMINE MIN SEPARATION FROM GLASS.

# MAX SPAN SCHEDULE

DESIGN LOAD (+) OR (-)	MAX PANEL SPAN
W (psf)	Lmax (ft)
40	11'-0"
45	10'-8"
50	10'-2"
55	9'-8"
60	9'-2"
65	8'-6"
70	7'-11"
75	7'-4"
80	6'-11"
90	6'-1"
100	5'-6"
120	4'-7"
160	3'-5"

# MAX SPAN SCHEDULE NOTES:

- 3) FOR DESIGN LOADS BETWEEN TABULATED VALUES USE NEXT HIGHER LOAD, OR LINEAR INTERPOLATION MAY BE PERFORMED BY A LICENSED PROFESSIONAL ENGINEER TO DETERMINE ALLOWABLE SPANS.

1) SPANS SHOWN IN "MAX SPAN SCHEDULE" ABOVE ARE MAXIMUM ALLOWABLE SPANS AT EACH RESPECTIVE DESIGN PRESSURE. THIS SCHEDULE MAY BE USED FOR ALL PANELS MOUNTED WITH ANY COMBINATION OF EXTRUSIONS OR DIRECTLY TO HOST STRUCTURE.

2) TABLES ABOVE ARE VALID FOR PANELS MOUNTED HORIZONTALLY OR VERTICALLY.

**PRODUCT REVISED** as complying with the Florida

Acceptance No 2-0523. 03 Expiration Date 09/08/2015

**Building Code** 

Acceptance No 12

10-ALW-0001 SCALE:

SCALE:
PAGE DESCRIPTION:

ALUMINUM WORLD, 4401 EAST 10TH AVENUE HIALEAH, FL 33013

INC

## **ANCHOR SCHEDULE:**

$\overline{}$	<u> </u>		<del></del>														
ے ا			2.5" MIN EDGE DISTANCE														
HOST STRUCT.		LOAD			Up To					Up To			Spans Up To 11'-0"				
	ANCHOR	(psf)	CONN TYPE						CC	YT NNC	PE		CONN TYPE				
Ξ į	DE POSITION	(621)	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
1	1/4" ELCO ULTRACON WITH	39	16.0"	16.0"	16.0"	16.0"	16.0"	16.0"	10.5"	16.0"	16.0"	12.9"	16.0"	7.2"	16.0"	14.3"	10.1"
1	1-3/4" MIN EMBED (2846psi	49	16.0"	13.5"	16.0"	16.0"	14.8"	16.0"	7.3"	16.0"	14.4"	10.2"	16.0"	5.2"	14.3"	11.3"	8.1"
1	MIN CONC)	58	16.0"	10.0"	16.0"	16.0"	12.5"	16.0"	5.7"	16.0"	12.2"	8.6"	16.0"	5.0"	13.3"	11.0"	7.8"
1	F <del>- managamas</del>	72	16.0"	7.1"	16.0"	14.2"	10.1"	16.0"	5.0"	13.3"	11.0"	7.8"	16.0"	5.0"	13.3"	11.0"	7.8"
	H - 1444444444444	130	16.0"	5.0"	13.3"	11.0"	7.8"	16.0"	5.0"	13.3"	11.0"	7.8"	16.0"	5.0"	13.3"	11.0"	7.8"
	1/4" ITW TAPCON WITH 1-3/4" MIN EMBED (3192psi MIN CONC)	39	16.0"	16.0"	16.0"	16.0"	16.0"	16.0"	12.3"	16.0"	16.0"	13.9"	16.0"	8.4"	16.0"	14.9"	10.9"
		49	16.0"	15.8"	16.0"	16.0"	16.0"	16.0"	8.5"	16.0"	15.0"	11.0"	16.0"	6.1"	16.0"	11.8"	8.7"
		58	16.0"	11.7"	16.0"	16.0"	13.5"	16.0"	6.7"	16.0"	12.7"	9.3"	16.0"	5.9"	15.6"	11.5"	8.5"
"		72	16.0"	8.3"	16.0"	14.8"	10.9"	16.0"	5.9"	15.6"	11.5"	8.5"	16.0"	5.9"	15.6"	11.5"	8.5"
		130	16.0"	5.9"	15.6"	11.5"	8.5"	16.0"	5.9"	15.6"	11.5"	8.5"	16.0"	5.9"	15.6"	11.5"	8.5"
CONCRETE	1/4" ELCO PANELMATE (FEMALE,	39	16.0"	16.0"	16.0"	16.0"	16.0"	16.0"	12.2"	16.0"	16.0"	14.1"	16.0"	8.4"	16.0"	15.3"	11.1"
8	MALE, or PLUS) W/ 1-3/4" MIN	49	16.0"	15.7"	16.0"	16.0"	16.0"	16.0"	8.5"	16.0"	15.4"	11.2"	16.0"	6.1"	16.0"	12.2"	8.9"
	EMBED (3350psi MIN CONC)	58	16.0"	11.6"	16.0"	16.0"	13.7"	16.0"	6.7"	16.0"	13.0"	9.5"	16.0"	5.8"	15.5"	11.8"	8.6"
	*	72	16.0"	8.3"	16.0"	15.2"	11.1"	16.0"	5.8"	15.5"	11.8"	8.6"	16.0"	5.8"	15.5"	11.8"	8.6"
	***************************************	130	16.0"	5.8"	15.5"	11.8"	8.6"	16.0"	5.8"	15.5"	11.8"	8.6"	16.0"	5.8"	15.5"	11.8"	8.6"
1	1/4-20 ALL POINTS SOLID-	39	16.0"	16.0"	16.0"	16.0"	16.0"	16.0"	9.6"	16.0"	16.0"	12.8"	16.0"	6.6"	16.0"	14.7"	10.1"
1	SET WITH 7/8" MIN EMBED	49	16.0"	12.4"	16.0"	16.0"	14.7"	16.0"	6.7"	16.0"	14.8"	10.2"	16.0"	4.8"	13.1"	11.7"	8.0"
	(3000psi MIN CONC)	58	16.0"	9.2"	16.0"	16.0"	12.4"	16.0"	5.2"	15.9"	12.5"	8.6"	16.0"	4.6"	12.2"		7.8"
1		72	16.0"	6.5"	16.0"	14.6"	10.0"	16.0"			11.4"	7.8"	16.0"	4.6"		11.4"	7.8"
	* <b>#</b>	130	16.0"	4.6"	12.2"	11.4"	7.8"	16.0"		12.2"	_	7.8"	16.0"	4.6"		11.4"	7.8"

				2.5" MIN EDGE DISTANCE														
[_ 턴				Spans	Up To	6'-0"			Spans	Up To	8'-8"		Spans Up To 11'-0"					
STRUCT.	ANCHOR	LOAD		CC	NN TY	PE			CC	NN TY	PE		CONN TYPE					
프 IS	ANGIOR	(psf)	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	
	1/4" ELCO ULTRACON WITH	39	14.4"	6.7"	14.4"	9.2"	6.2"	9.9"	3.1"	9.9"	6.3"	4.3"	7.8"		7.8"	5.0"	3.4"	
	1-1/4" MIN EMBED	49	11.4"	4.1"	11.4"	7.3"	5.0"	7.9"		7.9"	5.1"	3.4"	6.2"		4.3"	4.0"		
	_	58	9.7"		9.7"	6.2"	4.2"	6.7"		5.2"	4.3"		6.1"		4.0"	3.9"		
		72	7.8"		7.8"	5.0"	3.4"	6.1"		4.0"	3.9"		6.1"		4.0"	3.9"		
		130	6.1"		4.0"	3.9"		6.1"		4.0"	3.9"		6.1"		4.0"	3.9"		
	1/4" ITW TAPCON WITH	39	13.1"	6.1"	13.1"	10.6"	6.6"	9.1"		9.1"	7.3"	4.6"	7.2"		7.2"	5.8"		
	1-1/4" MIN EMBED	49	10.4"	3.7"	10.4"	8.4"	5.3"	7.2"		7.2"	5.8"	3.7"	5.7"		3.9"	4.6"		
BLOCK		58	8.8"		8.8"	7.1"	4.5"	6.1"		4.8"	4.9"	3.1"	5.5"		3.7"	4.5"		
Š		72	7.1"		7.1"	5.7"	3.6"	5.5"		3.7"	4.5"		5.5"		3.7"	4.5"		
		130	5.5"		3.7"	4.5"		5.5"		3.7"	4.5"		5.5"		3.7"	4.5"		
ноггом	1/4" ELCO PANELMATE (FEMALE,	39	16.0"	10.4"	16.0"	12.9"	9.1"	15.5"	4.9"	15.5"	9.0"	6.3"	12.2"	3.4"	12.2"	7.1"	E	
ᅻ	MALE, or PLUS) W/ 1-1/4" MIN	49	16.0"	6.3"	16.0"	10.3"	7.2"	12.3"	3.4"	12.3"	7.1"	5.0"	9.7"		6.7"	5.6"		
$\Xi$		58	15.0"	4.7"	15.0"	8.7"	6.1"	10.4"		8.1"	6.0"	4.2"	9.4"		6.2"	5.5"	3.8"	
	* <b>=</b>	72	12.1"	3.3"	12.1"	7.0"	4.9"	9.4"		6.2"	5.5"	3.8"	9.4"		6.2"	5.5"	3.8"	
		130	9.4"		6.2"	5.5"	3.8"	9.4"		6.2"	5.5"	3.8"	9.4"		6.2"	5.5"	3.8"	
	1/4-20 ALL POINTS SOLID-	39	16.0"	13.6"	16.0"	14.2"	10.4"	16.0"	6.4"	16.0"	9.8"	7.2"	16.0"	4.4"	16.0"	7.7"	5.7"	
	SET WITH 7/8" MIN EMBED	49	16.0"	8.3"	16.0"	11.3"	8.3"	16.0"	4.5"	16.0"	7.8"	5.8"	12.8"	3.2"	8.8"	6.2"	4.5"	
		58	16.0"	6.1"	16.0"	9.5"	7.0"	13.7"	3.5"	10.6"	6.6"	4.9"	12.4"	3.1"	8.2"	6.0"	4.4"	
	* [1	72	15.9"	4.4"	15.9"	7.7"	5.7"	12.4"	3.1"	8.2"	6.0"	4.4"	12.4"	3.1"	8.2"	6.0"	4.4"	
	·	130	12.4"	3.1"	8.2"	6.0"	4.4"	12.4"	3.1"	8.2"	6.0"	4.4"	12.4"	3.1"	8.2"	6.0"	4.4"	

								2//		EDGE I	210711	105					<u> </u>	
ن ا			L					3/4										
10) ~1		LOAD		Spans	Up To	6'-0''			Spans	S Up To	8'-8"		Spans Up To 11'-0"					
	LOAD (pcf)	CONN TYPE						CC	YT NNC	PE		CONN TYPE						
	(psf)	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5		
	1/4" LAG SCREW WITH 1.5"	39	16.0"	16.0"	16.0"	15.2"	12.9"	16.0"	14.0"	16.0"	10.5"	8.9"	16.0"	9.6"	16.0"	8.3"	7.0"	
	MIN THREAD PENETRATION	49	16.0"	16.0"	16.0"	12.1"	10.3"	16.0"	9.7"	16.0"	8.4"	7.1"	16.0"	6.9"	16.0"	6.6"	5.6"	
	— EMBED →	58	16.0"	13.3"	16.0"	10.2"	8.7"	16.0"	7.6"	16.0"	7.1"	6.0"	16.0"	6.7"	16.0"	6.4"	5.4"	
1	(N) #14 WOOD SCREW WITH	72	16.0"	9.5"	16.0"	8.2"	7.0"	16.0"	6.7"	16.0"	6.4"	5.4"	16.0"	6.7"	16.0"	6.4"	5.4"	
<u>2</u>		130	16.0"	6.7"	16.0"	6.4"	5.4"	16.0"	6.7"	16.0"	6.4"	5.4"	16.0"	6.7"	16.0"	6.4"	5.4"	
	1.5" MIN THREAD PENETRATION	39	16.0"	15.9"	16.0"	14.0"	10.7"	16.0"	7.5"	16.0"	9.7"	7.4"	16.0"	5.1"	16.0"	7.6"	5.9"	
		49	16.0"	9.7"	16.0"	11.1"	8.5"	16.0"	5.2"	16.0"	7.7"	5.9"	14.9"	3.7"	10.2"	6.1"	4.7"	
E II		58	16.0"	7.1"	16.0"	9.4"	7.2"	15.9"	4.1"	12.4"	6.5"	5.0"	14.4"	3.6"	9.5"	5.9"	4.5"	
9	<u> Одинининин</u> ⊳	72	16.0"	5.1"	16.0"	7.6"	5.8"	14.4"	3.6"	9.5"	5.9"	4.5"	14.4"	3.6"	9.5"	5.9"	4.5"	
18		130	14.4"	3.6"	9.5"	5.9"	4.5"	14.4"	3.6"	9.5"	5.9"	4.5"	14.4"	3.6"	9.5"	5.9"	4.5"	
WOOD	1/4" ELCO PANELMATE	39	16.0"	16.0"	16.0"	16.0"	16.0"	16.0"	14.8"	16.0"	16.0"	12.8"	16.0"	10.1"	16.0"	12.6"	10.1"	
>	(MALE, FEMALE OR PLUS) W/	49	16.0"	16.0"	16.0"	16.0"	14.7"	16.0"	10.3"	16.0"	12.7"	10.2"	16.0"	7.3"	16.0"	10.0"	8.0"	
1	1-7/8" MIN EMBED	58	16.0"	14.1"	16.0"	15.6"	12.4"	16.0"	8.1"	16.0"	10.8"	8.6"	16.0"	7.0"	16.0"	9.8"	7.8"	
1	* <u></u>	72	16.0"	10.0"	16.0"	12.5"	10.0"	16.0"	7.0"	16.0"	9.8"	7.8"	16.0"	7.0"	16.0"	9.8"	7.8"	
	- www.	130	16.0"	7.0"	16.0"	9.8"	7.8"	16.0"	7.0"	16.0"	9.8"	7.8"	16.0"	7.0"	16.0"	9.8"	7.8"	

# **ANCHOR SCHEDULE NOTES:**

- 1) SPANS AND LOADS SHOWN ARE PROVIDED FOR DETERMINING MAXIMUM ANCHOR SPACING ONLY. ALL STORM PANEL SPANS SHALL BE LIMITED AS SHOWN IN SPAN SCHEDULE.
- 2) ENTER ANCHOR SCHEDULE BASED ON APPROPRIATE HOST STRUCTURE MATERIAL, ANCHOR TYPE, AND CONNECTION TYPE. SELECT DESIGN LOAD GREATER THAN OR EQUAL TO NEGATIVE DESIGN LOAD ON SHUTTER AND SELECT SPAN GREATER THAN OR EQUAL TO PANEL SPAN.
- 3) REFER TO MOUNTING SECTION DETAILS FOR IDENTIFICATION OF CONNECTION TYPES.
- 4) 1/4" TAPCONS MAY BE BY ITW OR BY ELCO. "ELCO PANELMATE" ANCHORS FOR USE IN CONCRETE OR HOLLOW BLOCK MAY BE MALE, FEMALE, OR PANELMATE PLUS, AS ILLUSTRATED. FOR USE IN WOOD, "ELCO PANELMATE" ANCHORS MAY BE MALE OR FEMALE.
- 5) ENSURE MINIMUM 2-1/2" EDGE DISTANCE FOR ALL ANCHORS TO CONCRETE & TO HOLLOW BLOCK. EDGE DISTANCE OF 3/4" IS ACCEPTABLE FOR ANCHORS TO WOOD.
- 6) MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
- 7) ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
  8) WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD
- VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.

  9) WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2x4 (MIN) WOOD STUD (i.e. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING). WOOD STUD SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
- 10) ANCHOR SCHEDULE APPLIES FOR ALL PRODUCTS CERTIFIED HEREIN, BUT ONLY PROVIDES MAXIMUM ALLOWABLE ANCHOR SPACING. MAXIMUM ALLOWABLE SPANS AND PRESSURES INDICATED IN SPAN SCHEDULE SHALL APPLY.
- 11) MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD ("SIDEWALK BOLT") U.N.O.
- 12) \* DENOTES REMOVABLE ANCHORS, WHICH ARE REQUIRED FOR DIRECT MOUNT INSTALLATIONS AT 6" OR 12" O.C. MAXIMUM ANCHOR SPACING SHOWN IN SCHEDULE FOR CONNECTION TYPE 'C1' SHALL NOT BE EXCEEDED.
- 13) WIII DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE FOR USE.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0523.03
Expiration Date 09/08/10/1

Aiami Dade Product Control

ALUMINUM WORLD, INC.

(0.029" THICK) GALVANIZED WITH INTERIOR MOUNT TR MIAMI-DADE NOTICE OF 1

10-ALW-0001 SCALE: 01 PAGE DESCRIPTION:

